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21 [Databases: SQL DOM: compile time checking of dynamic SQL statements](#)



Russell A. McClure, Ingolf H. Krüger

 May 2005 **Proceedings of the 27th international conference on Software engineering**

Publisher: ACM Press

 Full text available: [pdf\(353.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most object oriented applications that involve persistent data interact with a relational database. The most common interaction mechanism is a call level interface (CLI) such as ODBC or JDBC. While there are many advantages to using a CLI -- expressive power and performance being two of the most key -- there are also drawbacks. Applications communicate through a CLI by constructing strings that contain SQL statements. These SQL statements are only checked for correctness at runtime, tend to be f ...

Keywords: SQL, SQL DOM, SQL injection, SQL strings, dynamic SQL, impedance mismatch

22 [Content integration for e-business](#)



Michael Stonebraker, Joseph M. Hellerstein

 May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(75.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We define the problem of content integration for E-Business, and show how it differs in fundamental ways from traditional issues surrounding data integration, application integration, data warehousing and OLTP. Content integration includes catalog integration as a special case, but encompasses a broader set of applications and challenges. We explore the characteristics of content integration and required services for any solution. In addition, we explore architectural alternatives and discuss ...

23 [Querying websites using compact skeletons](#)



Anand Rajaraman, Jeffrey D. Ullmann

 May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

 Full text available: [pdf\(220.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Several commercial applications, such as online comparison shopping and process automation, require integrating information that is scattered across multiple websites or XML documents. Much research has been devoted to this problem, resulting in several research prototypes and commercial implementations. Such systems rely on wrappers that provide relational or other structured interfaces to websites. Traditionally, wrappers have been constructed by hand on a per-website basis, constraining th ...

24 Data flow and validation in workflow modelling

Shazia Sadiq, Maria Orlowska, Wasim Sadiq, Cameron Foulger

January 2004 **Proceedings of the fifteenth Australasian database conference - Volume 27 ADC '04**

Publisher: Australian Computer Society, Inc.

Full text available:  [pdf\(136.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A complete workflow specification requires careful integration of many different process characteristics. Decisions must be made as to the definitions of individual activities, their scope, the order of execution that maintains the overall business process logic, the rules governing the discipline of work list scheduling to performers, identification of time constraints and more. The goal of this paper is to address an important issue in workflows modelling and specification, which is data flow, ...

Keywords: business process modelling, data validation, workflow data

25 TIGRA — an architectural style for enterprise application integration

Wolfgang Emmerich, Ernst Ellmer, Henry Fieglein

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available:  [pdf\(137.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)
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We report on experience that we made in the Trading room InteGRation Architecture project (TIGRA) at a large German bank. TIGRA developed a distributed system architecture for integrating different financial front-office trading systems with middle- and back-office applications. We generalize the experience by proposing an architectural style that can be re-used for similar enterprise application integration tasks. The TIGRA style is based on a separation of data representation using domain-s ...

26 Session 7: development frameworks: A platform for the development of semantic web portals

Oscar Corcho, Angel López-Cima, Asunción Gómez-Pérez

July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**

Publisher: ACM Press

Full text available:  [pdf\(331.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A Semantic Web portal is a Web application that offers information and services related to a specific domain, and that has been developed with Semantic Web technology. For the time being, the main difference with respect to a traditional Web portal is based on technological aspects: traditional Web portals are based on standard Web technology (HTML, XML, servlets, JSPs, etc.); semantic portals are based on that technology plus the use of Semantic Web languages like RDF, RDF Schema and OWL. This ...

Keywords: ODESeW, intranet, semantic web portal

27 Web technologies and applications (WTA): Semantic enrichment for improving systems interoperability



Xiaomeng Su, Sari Hakkarainen, Terje Brasethvik

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: [pdf\(875.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The overall goal addressed in this paper is to improve semantic interoperability in heterogeneous systems by means of establishing mappings between relevant domain ontologies. The mappings are discovered based on the technique of semantic enrichment through extension analysis, i.e. using instance information of the ontology to enrich the original ontology and further to calculate similarities between concepts in two ontologies. Text categorization is used to automatically assign instance to the ...

28 Migrating E-commerce database applications to an enterprise Java environment

Terence C. Lau, Jianguo Lu, Erik Hedges, Emily Xing

November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(572.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As technology evolves over time, a common problem is the migration of software applications from one technology base to another. This paper is a practical experience report based on IBM Net.Commerce to WebSphere Commerce Suite (WCS) migration. It identifies the problems and issues in the migration of applications using traditional database access (SQL) to applications using the Enterprise Java Bean (EJB) programming model, and presents a practical methodology in facilitating such migration. It a ...

Keywords: E-commerce, JSP, Net.data, SQL, database re-engineering, enterprise Javabeen, migration, relational-object mapping

29 Optimisation of component-based applications within a grid environment



Nathalie Furmento, Anthony Mayer, Stephen McGough, Steven Newhouse, Tony Field, John Darlington

November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: ACM Press

Full text available: [pdf\(177.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Effective exploitation of computational grids can only be achieved when applications are fully integrated with the grid middleware and the underlying computational resources. Fundamental to this exploitation is information. Information about the structure and behaviour of the application, the capability of the computational and networking resources, and the availability and access to these resources by an individual, a group or an organisation. This paper describes an integrated grid environment ...

30 Concrete syntax for objects: domain-specific language embedding and assimilation without restrictions




Martin Bravenboer, Eelco Visser

October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10

Publisher: ACM Press

Full text available: Additional Information:

 pdf(379.91 KB)

[full citation](#), [abstract](#), [references](#), [index terms](#)

Application programmer's interfaces give access to domain knowledge encapsulated in class libraries without providing the appropriate notation for expressing domain composition. Since object-oriented languages are designed for extensibility and reuse, the language constructs are often sufficient for expressing domain abstractions at the semantic level. However, they do not provide the right abstractions at the syntactic level. In this paper we describe MetaBorg, a method for providing <i> ...

Keywords: MetaBorg, SDF, concrete object syntax, domain-specific languages, embedded languages, extensible syntax, meta programming, rewriting, stratego, syntax extension

31 [ICENI: an open grid service architecture implemented with Jini](#)

Nathalie Furmento, William Lee, Anthony Mayer, Steven Newhouse, John Darlington
November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society Press

Full text available:  pdf(54.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The move towards Service Grids, where services are composed to meet the requirements of a user community within constraints specified by the resource provider, present many challenges to service provision and description. To support our research activities in the autonomous composition of services to form a Semantic Service Grid we describe the adoption within ICENI of web services to enable interoperability with the recently proposed Open Grid Services Architecture.

Keywords: computational grids, semantic grid, web services

32 [Agent-based semantic interoperability in infosleuth](#)



Jerry Fowler, Brad Perry, Marian Nodine, Bruce Bargmeyer
March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1


Publisher: ACM Press

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

33 [UML and XML schema](#)

Nicholas Routledge, Linda Bird, Andrew Goodchild
January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian database conference - Volume 5 ADC '02**, Volume 24 Issue 2

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available:  pdf(947.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML is rapidly becoming the standard method for sending information across the Internet. XML Schema, since its elevation to W3C Recommendation on the 2nd May 2001, is fast becoming the preferred means of describing structured XML data. However, until recently, there has been no effective means of graphically designing XML Schemas without exposing designers to low-level implementation issues. Bird, Goodchild and Halpin (2000) proposed a method to address this shortfall using the 'Objec ...

Keywords: DTD, UML, XML, XML Schema

34 Taxonomy of XML schema languages using formal language theory



Makoto Murata, Dongwon Lee, Murali Mani, Kohsuke Kawaguchi

November 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(1.34 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

On the basis of regular tree grammars, we present a formal framework for XML schema languages. This framework helps to describe, compare, and implement such schema languages in a rigorous manner. Our main results are as follows: (1) a simple framework to study three classes of tree languages (local, single-type, and regular); (2) classification and comparison of schema languages (DTD, W3C XML Schema, and RELAX NG) based on these classes; (3) efficient document validation algorithms for these cla ...

Keywords: XML, interpretation, schema, tree automaton, validation

35 Research session: integration and mapping #1: Information preserving XML schema embedding

Philip Bohannon, Wenfei Fan, Michael Flaster, P. P. S. Narayan

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(241.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A fundamental concern of information integration in an XML context is the ability to *embed* one or more source documents in a target document so that (a) the target document conforms to a target schema and (b) the information in the source document(s) is *preserved*. In this paper, information preservation for XML is formally studied, and the results of this study guide the definition of a novel notion of *schema embedding* between two XML DTD schemas represented as graphs. Schem ...

36 XML: Schemapath, a minimal extension to xml schema for conditional constraints



Claudio Sacerdoti Coen, Paolo Marinelli, Fabio Vitali

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(198.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the past few years, a number of constraint languages for XML documents has been proposed. They are cumulatively called *schema languages* or validation languages and they comprise, among others, DTD, XML Schema, RELAX NG, Schematron, DSD, xlinkit. One major point of discrimination among schema languages is the support of co-constraints, or co-occurrence constraints, e.g., requiring that attribute A is present if and only if attribute B is (or is not) present in the same element. Although ...

Keywords: co-constraints, schema languages, schemapath, xml

37 XML and information integration: Conceptual modeling of XML schemas



Bernadette Farias Lósio, Ana Carolina Salgado, Luciano do Rêgo Galvão

November 2003 **Proceedings of the 5th ACM international workshop on Web information and data management**

Publisher: ACM Press

Full text available: pdf(211.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

XML has become the standard format for representing structured and semi-structured data on the Web. To describe the structure and content of XML data, several XML schema

languages have been proposed. Although being very useful for validating XML documents, an XML schema is not suitable for tasks requiring knowledge about the semantics of the represented data. For such tasks it is better to use a conceptual schema. This paper presents an extension of the Entity Relationship (ER) model, called X-E ...

Keywords: ER model, XML, XML Schema, data integration

38 Potpourri: BIRN-M: a semantic mediator for solving real-world neuroscience problems



Amarnath Gupta, Bertram Ludäscher, Maryann E. Martone

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(71.38 KB) Additional Information: [full citation](#), [index terms](#)

39 Standards: XML schema



Charles E. Campbell, Andrew Eisenberg, Jim Melton

June 2003 **ACM SIGMOD Record**, Volume 32 Issue 2

Publisher: ACM Press

Full text available: pdf(397.29 KB) Additional Information: [full citation](#), [references](#)

40 Advanced XML technologies and applications: A mapping schema and interface for XML stores



Sihe Amer-Yahia, Divesh Srivastava

November 2002 **Proceedings of the 4th international workshop on Web information and data management**

Publisher: ACM Press

Full text available: pdf(204.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most XML storage efforts have focused on mapping documents to relational databases. Mapping choices range from storing documents verbatim to shredding documents into relations in various ways. These choices are usually hard-coded into each storage system which makes sharing loading and querying utilities and exchanging information between different XML storage systems hard. To address these issues, we designed MXM and IMXM, a mapping schema and an interface API to define and query XML-to-relatio ...

Keywords: XML storage/loading/publishing, XML-to-relational mapping

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